Product name: PLS62-W
Manufacturer: TRIMBLE EUROPE BV
          FCC Id: **NZI-120271**

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2} \quad \text{(formula 1)} \qquad\qquad PG = \frac{(Ed)^2}{30} \quad \text{(formula 2)}$$

where: S = power density
             P = power input to the antenna
             G = power gain of the antenna in the direction of interest relative to an isotropic radiator
             R = distance to the center of radiation of the antenna

             PG = Effective Isotropic Radiated Power (EIRP)
             E = Electric field measured at distance R distance
             d = measurment distance

Transmitter n°1d (LTE Band 12)

FCC ID: NZI-120271		
Maximum peak output power at the antenna terminal:	25,00	(dBm)
Maximum peak output power at the antenna terminal:	316,227766	(mW)
Antenna gain(typical):	2	(dBi)
Maximum antenna gain:	1,584893192	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	716	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	0,477333333	(mW/cm^2)
Power density at prediction frequency:	0,099708	(mW/cm^2) *(formula 1)*

Transmitter n°1e (LTE Band 18)

FCC ID: NZI-120271		
Maximum peak output power at the antenna terminal:	25,00	(dBm)
Maximum peak output power at the antenna terminal:	316,227766	(mW)
Antenna gain(typical):	5,15	(dBi)
Maximum antenna gain:	3,273406949	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	815	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	0,543333333	(mW/cm^2)
Power density at prediction frequency:	0,205935	(mW/cm^2) *(formula 1)*

Transmitter n°1f (LTE Band 19)

FCC ID: NZI-120271		
Maximum peak output power at the antenna terminal:	25,00	(dBm)
Maximum peak output power at the antenna terminal:	316,227766	(mW)
Antenna gain(typical):	5,15	(dBi)
Maximum antenna gain:	3,273406949	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	830	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	0,553333333	(mW/cm^2)
Power density at prediction frequency:	0,205935	(mW/cm^2) *(formula 1)*

Transmitter n°2 (Bluetooth: 2402-2480 MHz)

FCC ID: Z64-WL18DBMOD		
Maximum peak output power at the antenna terminal:	12,20	(dBm)
Maximum peak output power at the antenna terminal:	16,59586907	(mW)
Antenna gain(typical):	3,2	(dBi)
Maximum antenna gain:	2,089296131	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2402	(MHz)
MPE limit for uncontrolled exposure at prediction frequency (limit table FCC §1.1310):	1	(mW/cm^2)
Power density at prediction frequency:	0,006898	(mW/cm^2) *(formula 1)*

Transmitter N°1d + Transmitter N°2 :	[Pd(1d)/LPd(1d)] + [Pd(2)/LPd(2)] = 0,22	<1
Transmitter N°1e + Transmitter N°2 :	[Pd(1e)/LPd(1e)] + [Pd(2)/LPd(2)] = 0,39	<1
Transmitter N°1f + Transmitter N°2 :	[Pd(1f)/LPd(1f)] + [Pd(2)/LPd(2)] = 0,38	<1